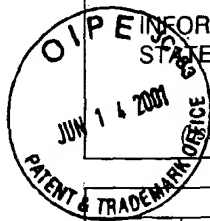


<b>Substitute for form 1449A-B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	<b>Complete if Known</b>	
	Application Number	09/776233
	Filing Date	February 2, 2001
	First Named Inventor	Nikolai F. Sepetov
	Group Art Unit	Unassigned 1631
	Examiner Name	Unassigned J. Brusca
Attorney Docket Number	33-000320US	



U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
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JB	AA	5,463,564		Agratiotis et al.	10-31-1995	

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JB	AB	BUCHARDT et al. (2000) "Solid Phase Combinatorial Library of Phosphinic Peptides for Discovery of Matrix Metalloproteinase Inhibitors." <i>J. Comb. Chem.</i> 2:624-638			
JB	AC	Database CAPLUS in STN, Chemical Abstracts, No. 133:74284, Carlson, Coby B. et al. "Solid-phase synthesis of acridine-peptide conjugates and their analysis by tandem mass spectrometry." <i>Abstract Org. Lett.</i> , 2000 (Abstract only)			
JB	AD	Database CAPLUS in STN, Chemical Abstracts, No. 132:251406, Aubagnac, J-L. et al. "Identification of synthetic by-products in combinatorial libraries using high performance liquid chromatography-electrospray ionization mass spectrometry." <i>Abstract, Comb. Chem. High Throughput Screening</i> , 1999 (Abstract only)			
JB	AE	Database CAPLUS in STN, Chemical Abstracts, No. 130:325543, Fitch, William L. "Analytical methods for quality control of combinatorial libraries." <i>Abstract, Mol. Diversity</i> , 1999. (Abstract only)			

Examiner Signature	J. Brusca	Date Considered	20 March 2001
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(Modified) PTO/SB/08A-B (10-96)  
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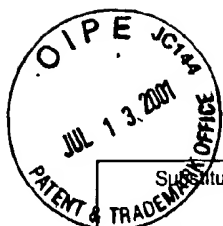
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JBS	AA	4,631,211		Houghten	12-23-1986	
JBS	AB	5,143,854		Pirrung et al.	09-01-1992	

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JBS	AC	Barnes et al. (1998) <u>S. Rec. Res. Dev. Org. Chem.</u> 2:367-379		
JBS	AD	Berlin et al. (1997) "Spectrometrically Monitored Selection Experiments-Quantitative Laser Desorption Mass Spectrometry of Small Chemical Libraries," <u>Chem. Biol.</u> 4:63-77		
JBS	AE	Brummel et al. (1996) "Evaluation of Mass Spectrometric Methods Applicable to the Direct Analysis of Non-Peptide Bead-Bound Combinatorial Libraries," <u>Anal. Chem.</u> 68:237-242		
JBS	AF	Bunin and Ellman (1992) "A general and expedient method for the solid phase synthesis of 1,4-benzodiazepine derivatives," <u>J. Amer. Chem. Soc.</u> 114:10997-10998		
JBS	AG	Carrasco et al. (1997) "Direct Monitoring of Organic Reactions on Polymeric Supports," <u>Tetrahedron Lett.</u> 38:6331-6334		
JBS	AH	Chu et al. (1993) "Using affinity capillary electrophoresis to identify the peptide in a peptide library that binds most tightly to vancomycin," <u>J. Org. Chem.</u> 58:648-652,		
JBS	AI	Czarnik (1997) "Encoding methods for combinatorial chemistry," <u>Curr. Opin. Chem. Biol.</u> 1:60-66		
JBS	AJ	Davis and Swayze (2000) "Automated solid-phase synthesis of linear nitrogen-linked compounds," <u>Biotechnol. Bioeng.</u> 71:19-27		
JBS	AK	Demirev and Zubarev (1997) "Probing combinatorial library diversity by mass spectrometry," <u>Anal. Chem.</u> 69:2893-2900		
JBS	AL	DeWitt et al. (1993) "'Diversomers': an approach to nonpeptide, nonoligomeric chemical diversity," <u>Proc. Natl. Acad. Sci. USA</u> 90:6909-6913		

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	Examiner Name	Unassigned J. Brusca
	Attorney Docket Number	33-000320US

JBS	AM	Enjalbal et al., (2000) "Mass spectrometry in combinatorial chemistry," <u>Mass Spectrom. Rev.</u> 19:139-161	
JBS	AN	Fitch et al. (1994) "High-resolution (1)H NMR in solid-phase organic synthesis," <u>J. Org. Chem.</u> 59:7955-7956	
JBS	AO	Gao et al. (1996) "Screening derivatized peptide libraries for tight binding inhibitors to carbonic anhydrase II by electrospray ionization mass spectrometry," <u>J. Med. Chem.</u> 39:1949-1955	
JBS	AP	Geysen et al. (1986) "A priori delineation of a peptide which mimics a discontinuous antigenic determinant," <u>Mol. Immunol.</u> 23:709-715	
JBS	AQ	Geysen et al. (1987) <u>J. Immun. Meth.</u> 102:259-274	
JBS	AR	Haag (2000) "Chemspeed Ltd.: Automated and unattended parallel synthesis integrating work-up and analysis," <u>Chimia</u> 54:163-164,	
JBS	AS	Haap et al. (1998) "FT-IR Mapping -- A New Tool for Spatially-Resolved Characterization of Polymer-Bound Combinatorial Compound Libraries with Ir Microscopy," <u>Angew. Chem. Int. Ed.</u> 37(23):3311-3314	
JBS	AT	Houghten (1985) "General method for the rapid solid-phase synthesis of large numbers of peptides," <u>Proc. Natl. Acad. Sci. USA</u> 82:5131-5135	
JBS	AU	Houghten et al. (1991) "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery" <u>Nature</u> 354:84-86	
JBS	AV	Hu et al. (2000) "Automated solid-phase synthesis and photophysical properties of oligodeoxynucleotides labeled at 5'-aminothymidine with Ru(bpy)(2)(4-m-4'-cam-bpy)(2+)," <u>Inorg. Chem.</u> 39:2500-2504	
JBS	AW	Hughes (1998) "Design of self-coded combinatorial libraries to facilitate direct analysis of ligands by mass spectrometry," <u>Med. Chem.</u> 41:3804-3811	
JBS	AX	Keifer (1996) "Influence of resin structure, tether length, and solvent upon the high-resolution (1)H NMR spectra of solid-phase-synthesis resins," <u>J. Org. Chem.</u> 61:1558-1559	
JBS	AY	Keifer et al. (2000) "Direct-injection NMR (DI-NMR): A flow NMR technique for the analysis of combinatorial chemistry libraries," <u>Journal of Combinatorial Chemistry</u> 2; 151-171	
JBS	AZ	Konings et al. (1996) "Deconvolution of combinatorial libraries for drug discovery: theoretical comparison of pooling strategies," <u>J. Med. Chem.</u> 39:2710-2719	
JBS	BA	Lake et al. (2000) "Sample preparation for high throughput accurate mass analysis by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry," <u>Rapid Commun. Mass Spectrom.</u> 14:1008-1013	

Examiner Signature	J. Brusca	Date Considered	20 March 2004
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	Application Number	09/776233
	Filing Date	February 2, 2001
	First Named Inventor	Nikolai F. Sepetov
	Group Art Unit	Unassigned 1631
	Examiner Name	Unassigned J. Brusca
	Attorney Docket Number	33-000320US

JB	BB	Lam et al. (1997) "The 'one-bead-one-compound' combinatorial library method," <u>Chem. Rev.</u> 97:411-448	
JB	BC	Lewis et al. (2000) "Automated high-throughput quantification of combinatorial arrays," <u>American Pharmaceutical Review</u> 3:63-68	
JB	BD	McGregor and Muskal (1999) "Pharmacophore fingerprinting 1. application to QSAR and focused library design," <u>J. Chem. Inf. Comput. Sci.</u> 39:569-574	
JB	BE	Meldal (1992) "PEGA: A flow stable polyethylene glycol dimethyl acryamide copolymer for solid phase synthesis," <u>Tetrahedron Lett.</u> 33:3077	
	BF	Merrifield (1985) "Solid phase synthesis (Nobel lecture)," <u>Angew. Chem.</u> 97:801-802	no translation not considered
JB	BG	Metzger et al. (1993) "Ion-spray mass spectrometry and high-performance liquid chromatography. Mass spectrometry of synthetic peptide libraries," <u>Angew. Chem. Int. Ed.</u> 32:894-896	
JB	BH	Moran et al. (1995) <u>J. Am. Chem. Soc.</u> 117:10787-10788	
JB	BI	Newcomb et al. (1998) "Analysis of 9-fluorenylmethoxycarbonyl (Fmoc) loading of solid-phase synthesis resins by gas chromatography," <u>Biotech. Bioeng. (Comb. Chem.)</u> 61:55-60	
JB	BJ	Nicolaou et al. (1995) <u>Angew. Chem. Int. Ed. Engl.</u> 34:24-2479	
JB	BK	North (2000) "Implementation of analytical technologies in a pharmaceutical development organization-looking into the next millennium," <u>Journal of Automated Methods and Management in Chemistry</u> 22:41-45	
JB	BL	Pickett et al. (1998) "Strategies for the design and comparison of combinatorial libraries using pharmacophoric descriptors," <u>J. Chem. Inf. Comput. Sci.</u> 38:144-150	
JB	BM	Pirrung et al., Pirrung (1997) "Spatially addressable combinatorial libraries," <u>Chem. Rev.</u> 97:473-488	
JB	BN	Schriemer et al. (1998) "Microscale Frontal Affinity-Chromatography with Mass-Spectrometric Detection - A New Method for the Screening of Compound Libraries," <u>Angew. Chem. Int. Ed.</u> 37(24):3383-3387	
JB	BO	Stevanovic and Jung (1993) "Multiple sequence analysis: Pool sequencing of synthetic and natural peptide libraries," <u>Anal. Biochem.</u> 212:212-220	
JB	BP	van Breemen et al. (1997) "Pulsed ultrafiltration mass spectrometry: A new method for screening combinatorial libraries," <u>Anal. Chem.</u> 69:2159-2164	
JB	BQ	Wilson-Lingardo et al. (1996) "Deconvolution of combinatorial libraries for drug discovery: experimental comparison of pooling strategies," <u>J. Med. Chem.</u> 39:2720-2726	

Examiner Signature	J.B. Brusca	Date Considered	20 March 2004
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	Application Number		09/776233	
	Filing Date		February 2, 2001	
	First Named Inventor		Nikolai F. Sepetov	
	Group Art Unit		Unassigned - 1631	
	Examiner Name		Unassigned - J. Brusca	
Attorney Docket Number		33-000320US		

BR	Xiao and Nova (1997) <u>Comb. Chem.</u> 135-152	
BS	Xiao et al. (1997) <u>Angew. Chem. Int. Ed. Engl.</u> 36:780-782	
BT	Youngquist et al. (1994) "Matrix-assisted laser desorption ionization for rapid determination of the sequences of biologically active peptides isolated from support-bound combinatorial peptide libraries," <u>Rapid Commun. Mass Spectrom.</u> 8:77-81	
BU	Zuckermann et al. (1992) "Design, construction and application of a fully automated equimolar peptide mixture synthesizer," <u>Int. J. Peptide Prot. Res.</u> 40:497-506	

Examiner Signature	<i>J. Brusca</i>	Date Considered	20 March 2001
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Substitute for form 1449, B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
	Application Number	09/776233
	Filing Date	February 2, 2001
	First Named Inventor	Nikolai F. Sepetov
	Group Art Unit	4641-1631
	Examiner Name	Unassigned J. Brusca
Attorney Docket Number	33-000320US	

U.S. PATENT DOCUMENTS						
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
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JB	AA	Cargill and Maiefski (1996) "Automated combinatorial chemistry on solid phase," <u>Lab. Robotics. Automation</u> 8:139-148		
JB	AB	Castelino et al. (2000) "Automated sample storage for drug discovery," <u>Chim. Oggi</u> 17:32-35		
JB	AC	Furka and Bennett (1999) "Combinatorial libraries by portioning and mixing," <u>Comb. Chem. High Throughput Screening</u> 2:105-122		
JB	AD	Groger et al. (2000) "1,3,5-Triazines, versatile industrial building blocks: Synthetic approaches and applications," <u>Chim. Oggi</u> 18:12-16		

Examiner Signature	J. Brusca	Date Considered	20 March 2004
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	09/776233
Filing Date	February 2, 2001
First Named Inventor	Nikolai F. Sepetov
Group Art Unit	1641-1631
Examiner Name	Unassigned - J. Brusca
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JBS		5,910,655	A1	Skilling	06-08-1999	
JBS		6,017,693	A1	Yates, III et al.	01-25-2000	
JBS		6,147,344	A1	Annis et al.	11-14-2000	
JBS		6,207,370	B1	Little et al.	03-27-2001	
JBS		6,207,861	B1	Nash et al.	03-27-2001	

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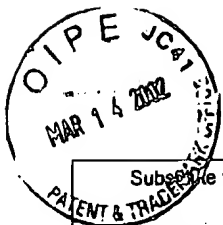
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JBS		WO	97/37953	A1	Glaxo Group, LTD.	10-16-1997		

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	First Named Inventor	Nik lai F. S. pat
	Group Art Unit	1641-1631
	Examiner Name	Unassigned - J. Brusca
	Attorney Docket Number	33-000320US
Date Submitted	February 26, 2002	

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JH	AA	Terret, N., <u>Combinatorial Chemistry</u> , Oxford University Press (1998), pages 7-32.			

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